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Autologous skeletal myoblasts transplanted to ischemia-damaged myocardium in humans. Histological analysis of cell survival and differentiation. Pagani FD, DerSimonian H, Zawadzka A, Wetzel K, Edge AS, Jacoby DB, Dinsmore JH, Wright S, Aretz TH, Eisen HJ, Aaronson KD.

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implantation. BACKGROUND: Autologous skeletal myoblast transplantation is under investigation as a means to four explanted hearts using an antibody against skeletal muscle-specific myosin heavy chain. An increase in small vessel formation was observed in one of three patients at the site of surviving myotubes, but not in adjacent tissue received a transplant of 300 million cells concomitant with LVAD implantation. Four patients underwent LVAD explant after 68, 91, 141, and 191 days of LVAD support (three transplant, one LVAD death), respectively. One devoid of engrafted cells. CONCLUSIONS: These findings represent demonstration of autologous myoblast cell patient remains alive on LVAD support awaiting heart transplantation. RESULTS: Skeletal muscle cell survival and differentiation into mature myofibers were directly demonstrated in scarred myocardium from three of the repair infarcted myocardium. To date, there is only indirect evidence to suggest survival of skeletal muscle in humans. METHODS: Five patients (all male; median age 60 years) with ischemic cardiomyopathy, refractory OBJECTIVES: We report histological analysis of hearts from patients with end-stage heart disease who were muscle specimen was shipped to a cell isolation facility where myoblasts were isolated and grown. Patients heart failure, and listed for heart transplantation underwent muscle biopsy from the quadriceps muscle. The survival in human heart. The implanted skeletal myoblasts formed viable grafts in heavily scarred human transplanted with autologous skeletal myoblasts concurrent with left ventricular assist device (LVAD)